

## **Stud Diode**

## **Rectifier Diode**

SKN 26 SKR 26

## **Features**

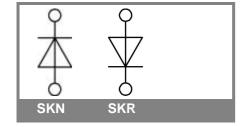
- Reverse voltages up to 1600 V
- Hermetic metal case with glass insulator
- Threaded stud ISO M6 (SKR 26 also 10 - 32 UNF)
- SKN: anode to stud, SKR: cathode to stud

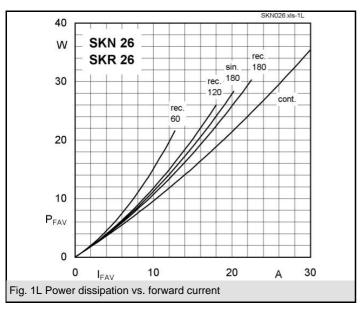
## **Typical Applications**

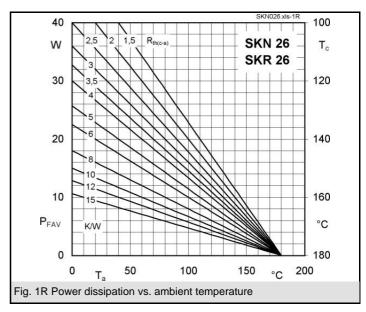
- All-purpose mean power rectifier diodes
- Cooling via metal plates or heatsinks
- Non-controllable and half-controllable rectifiers
- · Free-wheeling diodes
- Recommended snubber network: RC: 0,05  $\mu$ F, 200  $\Omega$  (P  $_{R}$  = 1 W), R  $_{P}$  = 150  $k\Omega$  (P  $_{R}$  = 4 W)

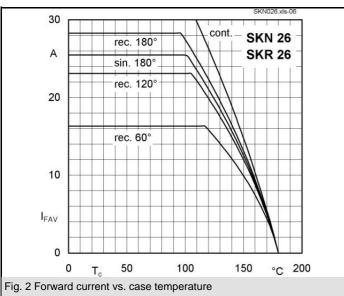
$V_{RSM}$	$V_{RRM}$	I <sub>FRMS</sub> = 40 A (maximum value for continuous operation)		
V	V	$I_{FAV} = 25 \text{ A (sin. } 180 \text{ °; } T_c = 100 \text{ °C)}$		
400	400	SKN 26/04	SKR 26/04	
800	800	SKN 26/08	SKR 26/08	
1200	1200	SKN 26/12	SKR 26/12	
1400	1400	SKN 26/14	SKR 26/14	
1600	1600	SKN 26/16	SKR 26/16	

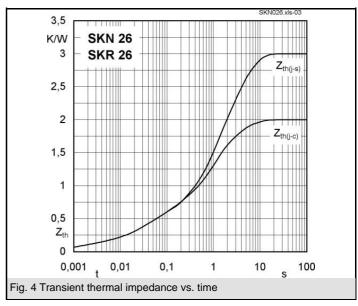
Symbol	Conditions	Values	Units
I <sub>FAV</sub>	sin. 180; T <sub>c</sub> = 100 °C	25	Α
$I_D$	K 9; T <sub>a</sub> = 45 °C; B2 / B6	20 / 29	Α
	K 3; T <sub>a</sub> = 45 °C; B2 / B6	35 / 50	Α
I <sub>FSM</sub>	T <sub>vi</sub> = 25 °C; 10 ms	375	Α
	T <sub>vi</sub> = 180 °C; 10 ms	320	Α
i²t	T <sub>vi</sub> = 25 °C; 8,3 10 ms	700	A²s
	T <sub>vj</sub> = 180 °C; 8,3 10 ms	510	A²s
$V_{F}$	T <sub>vi</sub> = 25 °C; I <sub>F</sub> = 60 A	max. 1,55	V
V <sub>(TO)</sub>	T <sub>vi</sub> = 180 °C	max. 0,85	V
r <sub>T</sub>	T <sub>vi</sub> = 180 °C	max. 11	mΩ
$I_{RD}$	$T_{vi} = 180 ^{\circ}\text{C};  V_{RD} = V_{RRM}$	max. 4	mA
$Q_{rr}$	$T_{vj} = 160  ^{\circ}\text{C}; - di_{F}/dt = 10  \text{A/}\mu\text{s}$	20	μC
R <sub>th(j-c)</sub>		2	K/W
R <sub>th(c-s)</sub>		1	K/W
$T_{vj}$		- 40 <b>+</b> 180	°C
T <sub>stg</sub>		- 55 <b>+</b> 180	°C
V <sub>isol</sub>		-	V~
$M_s$	to heatsink	2,0	Nm
а		5 * 9,81	m/s²
m	approx.	8	g
Case		E 8	

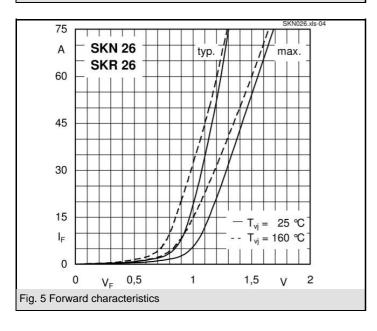


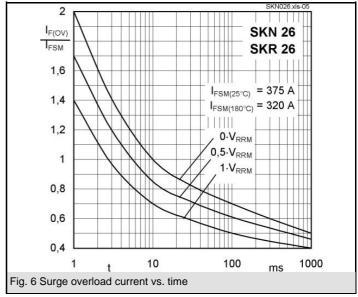


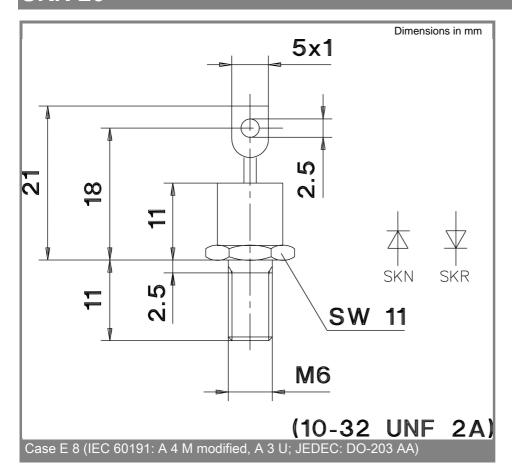












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